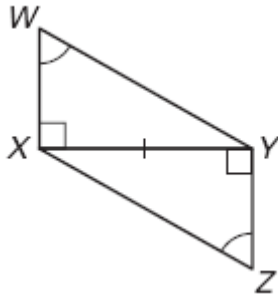


Geometry      Date\_\_\_\_\_      4.5 Assignment  
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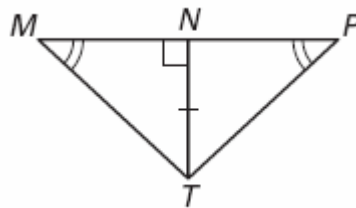
1. What is your name?

Use the marked diagram to state the method used to prove the triangles congruent. Name the additional corresponding parts that could then be concluded to be congruent.

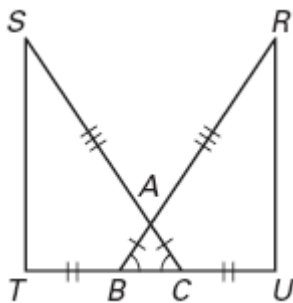
2.



3.



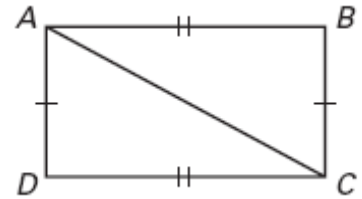
4.



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5. Complete the proof by supplying the statements or reasons.

Given:  $\overline{AD} \cong \overline{BC}$   
 $\overline{AB} \cong \overline{DC}$



Prove:  $\overline{AD} \parallel \overline{BC}$

Statement	Reason
1.	1. Given
2. $\overline{AC} \cong \overline{AC}$	2.
3.	3. SSS congruence postulate
4. $\angle DAC \cong \angle BCA$	4.
5. $\overline{AD} \parallel \overline{BC}$	5.

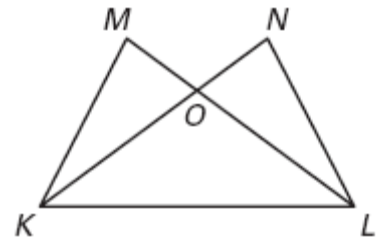
Write a two-column or a paragraph proof.

Given:  $\angle M \cong \angle N$

$\angle OKL \cong \angle OLK$

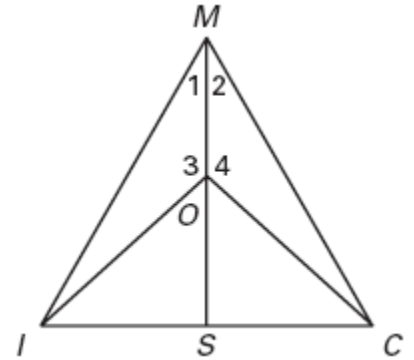
6.

Prove:  $\overline{MO} \cong \overline{NO}$



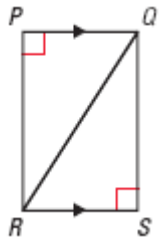
Geometry Date\_\_\_\_\_ 4.5 Assignment  
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- Given:  $\angle 1 \cong \angle 2$   
 $\angle 3 \cong \angle 4$   
 7. Prove:  $\triangle ISO \cong \triangle CSO$



Multiple Choice.

8. \_\_\_\_\_ Suppose  $\overline{PQ} \parallel \overline{RS}$ . You want to prove that  $\overline{PR} \cong \overline{SQ}$ . Which of the reasons below would not appear in your two-column proof?
- A. AAS theorem.
  - B. Alternate interior angle theorem.
  - C. Reflexive property of congruence.
  - D. Right angle congruence theorem.
  - E. SAS congruence postulate



9. \_\_\_\_\_ Which statement correctly describes the congruence of the triangles in the diagram?
- A.  $\triangle PRQ \cong \triangle SRQ$
  - B.  $\triangle QRS \cong \triangle PQR$
  - C.  $\triangle SRQ \cong \triangle PQR$
  - D.  $\triangle SRQ \cong \triangle RQP$

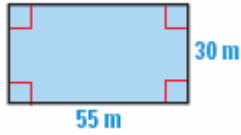
Geometry      Date\_\_\_\_\_      4.5 Assignment  
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Review.

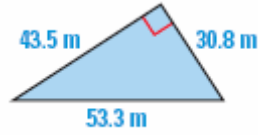
Find the perimeter (or circumference) and area of the figure.

(Chapter 1 Section 7)

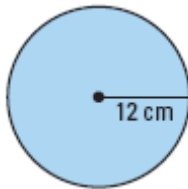
10.



11.



12.



Solve the equation and state a reason for each step. (Chapter 2 Section 4)

13.  $x + 11 = 21$

14.  $3(x - 1) = 16$

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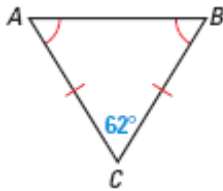
Solve the equation and state a reason for each step. *(Chapter 2 Section 4)*

15.  $9x + 2 = 29$

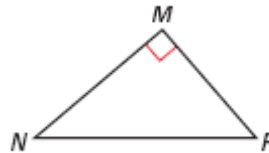
16.  $6(2x - 1) + 15 = 69$

Classify the triangle by its angles and by its sides. Identify the legs and the hypotenuse of any right triangles. Identify the legs and the base of any isosceles triangles. *(Chapter 4 Section 1)*

17.



18.



19.

